

COMPUTED TOMOGRAPHY WITH Z-AXIS SCANNING

ABSTRACT

A CT imaging system includes a two-dimensional detector array and an x-ray source that both revolve around the subject during a scan. The x-ray source produces a cone beam of x-rays and the focal point of this cone beam is electrically moved to different locations along the z-axis to increase the z-axis extent of the ROI that can be imaged without patient table movement. Different focal point scan patterns are described for a variety of different clinical applications.